

THIE UNITED SHATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Aickerson-Zwaan

ALCCENS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROTAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW. THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY THAT SERON THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC SUPPRISONMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE CHARGE EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR SET OF THE TURE OF THE PROPERTY OF THE TURE OF THE PLANT OF THE EXTENT BORY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'NIZ 44-4704'

In Jestimonn Therest, I have hereunto set my hand and caused the seal of the Hant Bariety Protection Office to be affixed at the City of Washington, D.C. this second day of October, in the year two thousand and eight.

Attest.

Qe~3~

Commissioner Plant Variety Protection Office Agricultural Marketing Service should 2. April

ST-470 (04-03) designed by the Plant Variety Protection Office using Word 2002.

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it vill reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initiated and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvpindex.htm

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any hervested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

 LST SALES IN THE US THE 04/27/2004
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or spansor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to everage 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gethering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agricultura (USDA) prohibits discrimination in all its programs and activities on the basts of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or tamily status, political baliefs, parantel status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiologe, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and independence Avenue, SW, Washington, DC 20250-9410 or cell 202-720-5964 (vaice and TDD). USDA is an equal apportunity provider and employer.

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Exhibit A Origin and Breeding History Lettuce, 44-4704 NIZ 44-4704

Genealogy / Breeding Method / Selection Criteria



44-4704 was derived via pedigree method from a cross made by Nickerson Zwaan breeders in Holland. The specific parents that were used to create the segregating lines were Frisby, the female parent, a curly green leaf type variety from Nickerson Zwaan and Malibu, the male parent, which is a lolla rosa type from Rijk Zwaan containing the Downy Mildew resistance factor DM 18.

The F2 seed crop was grown by Nickerson Zwaan and field testing of the F2 population began in 1996. In field tests in the F2, F3, F4 and F5 generations, the selection criteria was a vigorous upright red baby leaf plant type with thicker texture than a lolla rosa type. An additional selection criterion was intensity of red color from anthocyanin under normal long day conditions in Holland summer production.

The seed of F3, F4 and F5 were tested for the presence of Downy Mildew resistance factor DM 18. The F3 population was found to be segregating, but F4 and F5 were found to be nonsegregating in these generations, thus homozygous. At harvest of F6, a mass was created and was given the designation 44-4704.

Multiplication / Uniformity / Stability

Seed from the F7, F8 and F9 generations has been trialed under commercial production sites in Europe. Seed from these generations has been used as stock seed for commercial seed production. Based on these trials 44-4704 appears stable and uniform through F9 generation.

'n12 44 - 4704'

<u>Variants</u>

No variants have been observed in 44-4704 in numerous field trials throughout Europe and the United States.

PVP Application # ___

Exhibit B Statement of Distinctness Lettuce, 44-4704 NIZ 44-4704

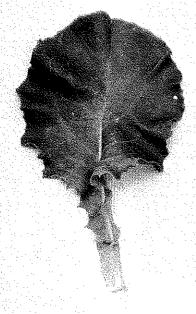
1/18/08 the

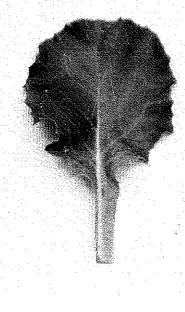
Lettuce variety 44-4704 can be compared most closely to Mendoza (PVP #9900343 – pending). These two varieties are considered baby red leaf lettuce, unique from lollo rosa. However, 44-4704 has several differentiating attributes when varieties are grown under the same conditions:

- Lettuce variety 44-4704 differs in leaf color from Mendoza (Royal Horticultural Society colour chart); 44-4704 having a value of 60A, Mendoza a value of 59A.
- Lettuce variety 44-4704 differs in shape of cotyledons from Mendoza; 44-4704 having a broad shape of cotyledons, Mendoza having an intermediate shape of cotyledons.
- Lettuce variety 44-4704 differs in the basal margin of the fourth leaf, from Mendoza; 44-4704 having an entire basal margin of the fourth leaf; Mendoza having a moderately dentate basal margin of the fourth leaf.

Addendum added 8/21/2008

'NIZ 44-4704' is most similar to 'Mendoza'; however, 'NIZ 44-4704' has more anthocyanin on the fourth leaf petioles (present vs absent) than 'Mendoza'.

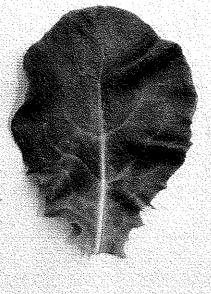


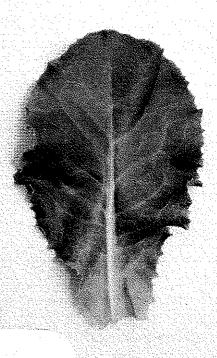




NIZ 44-4704







Mendoza

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved OMB NO 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 Exhibit C

121/08 8/51/08

OBJECTIVE DESCRIPTION OF VARIETY Lettuce (Lactuca sativa L.)

NAME OF APPLICANT (S) Vilmorin; Incorporated Nickeysan 7 14364 3 V	FOR OFFICIAL USE ONLY				
ADDRESS (Street and No. or RD No., City, State, and Zip Code)	PVP92UNEO 5 0 0 1 9 3				
2551 North Dragoon Tucson Arizona 85745 ARIZI 108	VARIETY NAME N 1 Z 44 - 4704 TEMPORARY OR EXPERIMENTAL DESIGNATION				
PLEASE READ ALL INSTRUCTIONS CAREFULLY					
Place the appropriate number that describes the varietal character in the boxes below. Place a zero in the fir number is either 99 or less or 9 or less. Measured data should be the mean of an appropriate number (at leas Society or any recognized color standard may be used to determine plant colors.	Landamad Land				
The Location of the Test Area is: Central California Color System Used: Royal Horticu	Itural Society colour chart				
SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION: Use standard regional check varieties which are adapted to your area. One of the comparison varieties must be the most similar variety used in Exhibit B. Application Variety (a1)44-4704 Most Similar Variety (c1)Mendoza Standard Regional Check Variety (c2) none in same classification					
1. PLANT TYPE: (See List of Suggested Check Varieties on Page 8) 01 = Cutting/Leaf					
2. SEED: (a1)	HEAT DORMANCY 1 = Susceptible 2 = Not Susceptible				
COTYLEDON TO FOUTH LEAF STAGE: NOTE: Provide a color photograph or photocopy of the fourth lead conditions.	of from 20 day-old seedling grown under optional				
SHAPE OF COTYLEDONS: 1 = Broad 2 = Intermediate 3 = Spatulate (a1) 1 (c1) 2	(c2)				

3.	COTYLEDON TO FOUTH LEA	F STAGE: (Continue	d)		2005001	93
	REFLEXING:	1 =None	2= Apical Margin	3 = Lateral Margins		
		(a1)	1	(c1) 1	(c2)	
4.	MATURE LEAVES (Observe H	larvest-Mature Outer		ovide color photo of a harvest- aracteristics.	mature leaf which accurately shows	color and margin
	MARGIN:					
	INCISION DEPTH: (Deepest Penetration	1 = Absent/Shallow	(Dark Green Boston)	2 = Moderate (Vangu	ard) 3 = Deep (Great Lakes 6	59)
	of the Margin)	(a1)		(c1) 1	(c2)	
	INDENTATION: (Finest Divisions of the Margin)	2 = Shallowly D	k Green Boston) Pentate (Great Lakes Natate (Great Lakes 65	65) 5 = Other (Specify)		
		(a1)	2	(c1) 2	(c2)	
	UNDULATIONS OF THE APICAL MARGIN:	1 = Absent/Slig 3 = Strong (Gre	ht (Dark Green Bosto eat Lakes 659)	on) 2 = Moderate (Vanguard))	
		(a1)	1	(c1) 2	(c2)	
GR	EEN COLOR:	1 = Very Light (2 = Light Green		Medium Green (Great Lakes) Dark Green (Vanguard)	5 = Very Dark Green 6 = Other (Specify)	
		(a1)	1	(c1) 1	(c2)	
ÄN	THOCYANIN:					
	DISTRIBUTION: 2 = Margin Only (Big Boston)	1 = Absent 4 = Throughout	3 = 8 (Prize Head)	Spotted (California Cream Butt	ter) 5 = Other (Specify)	
		(a1)	4	(c1) 4	(c2)	
	CONCENTRATION:	1 = Light (Iceb	erg) 2 = Moder	rate (Prize Head) 3 = I	ntense (Ruby)	
 .	SIZE:	1 = Small	2= Mediur			
÷		(a1)	1	(c1) 1	(c2)	
	GLOSSINESS:	1 = Dull (Vangu	ard) 2 = N	floderate (Salinas)	3 = Glossy (Great Lakes)	
		(a1)	0 2	(c1) 0 2	(c2)	
	BLISTERING: (Salinas)	1 = Absent/Sligh (Vanguard)		ate 3 = Strong Head)		
		(a1)	0 1	(c1) 0 1	(c2)	
	LEAF THICKNESS:	1 = Thin (a1)	2 = Interm	ediate 3 = Thick (c1) 0 1	(c2)	
	TRICHOMES:	1 = Absent (Sm	nooth) 2 = Presei	nt (Spiny)	[<u>-</u> <u>-</u> -	
		(a1)	0 1	(c1) 0 1	(c2)	10

			#200300 Exhibit C (Len
5. PLANT:			Exhibit C (Lat
SPREAD OF FRAME LEAVES:	(a1) 2 0 cm	(c1) cm	(c2)cm
HEAD DIAMETER: (Market Trin	nmed with Single Cap Leaf)		
	(a1) 1 5 cm	(c1) cm	(c2) cm
HEAD SHAPE:	1 = Flattened 3 = Spr 2 = Slightly Flattened 4 = Eld	nerical 5 = Non-Heading ongate 6 = Other (Specify	1
	(a1) 5	(c1)	(c2)
HEAD SIZE CLASS:	1 = Small 2 = Med		
HEAD PER CARTON:	(a1) 2	(c1) []	(c2)
TERST ERGALION.	(a1) 1 2	(c1)	(c2)
HEAD WEIGHT:			
	(a1) 4 0 0	g. (c1)	g. (c2) g.
HEAD FIRMNESS:	1 = Loose 2 = Moderate	3= Firm	4 = Very Firm
	(a1) 1	(c1)	(c2)
6. BUTT:			
SHAPE:	1 = Slightly Concave 2 =	Flat 3 = Rounded	
	(a1) 1	(c1)	(c2)
MIDRIB:	1 = Flattened (Salinas) 2 =	Moderately Raised 3 = Promir	nently Raised (Great Lakes 659)
	(a1) 2	(c1)	(c2)
7. CORE:			
DIAMETER AT BASE OF HEAD:			
	(a1) 1 2 _{mm}	(c1) mm	(c2) mm
RATIO OF HEAD DIAMETER/COR	E DIAMETER:		144
	(a1) 4	(c1)	(c2)
CORE HEIGHT FROM BASE OF H	EAD TO APEX:		
	(a1) 5 0 mm	(c1) mm	(c2) mm
8. BOLTING: (Give First Water Date:	April 15, 2004) N	NOTE: First water date is the date se germinate. This can and often doe	ed first receives adequate moisture to
NUMBER OF DAYS FROM FIRST (WATER DATE TO SEED STALK E	MERGENCE: (Summer Conditions)	- part are presently duto.
	(a1) 0 4 9	(c1) 0 4 5	(c2)

¹ First Water Date to Harvest.

			and that the think have been seen as the second of the sec	The description of the second
***************************************				Exhibit C (Lettuce
10. ADAPTATION:			2 (0500193
PRIMARY REGIONS OF ADAPTATION (Tested and Proven Ad	dapted): (0 = Not Tested		Adapted)
2 Southwest (CA and/or AZ Desert)	2 West C	oast	Northeast	
0 North Central	0 Souther	ast	Other (Specify)	
SEASON:				
0 Spring (Area)	2 Fall (Central Co	ast California)	
0 Summer (Area)	0 Winter (Area)
0 GREENHOUSE: 0 = Not Tested		Adapted 2 = Ad	apted	
1 SOIL TYPE: 1 = Mineral	2 = Org	anic 3 = Bo	th	
11. VIRAL DISEASES:			***************************************	
1 = Immune 3 = Resistant 5	= Moderately Resista	nt/Moderately Susceptible	7 = Susceptible	9 = Highly Susceptible
Big Vein	(a1) 0	(c1)	(c2)	
Lettuce Mosaic	(a1) 7	(c1)	(c2)	
Cucumber Mosaic	(a1) 0	(c1)	(c2)	
Tomato Bushy Stunt, Cause of Dieback	(a1) 0	(c1)	(c2)	
Turnip Mosaic	(a1) 0	(c1)	(c2)	
Beet Western Yellows	(a1) 0	(c1)	(c2)	
Lettuce Infectious Yellows	(a1) 0	(c1)	(c2)	
Other (Specify)	(a1)	(c1)	(c2)	
2. FUNGAL/BACTERIAL DISEASES:	** ***********************************			· · · · · · · · · · · · · · · · · · ·
	Moderately Resistar	nt/Moderately Susceptible	7 = Susceptible	9 = Highly Susceptible
Corky Root Rot Races:	(a1) 0	(c1)	(c2)	
Downy Mildew Races:V)	(a1) 3	(c1) 7	(c2)	
Powdery Mildew	(a1) 0	(c1)	(c2)	
Sclerotinia Drop	(a1) 0	(c1)	(c2)	
Bacterial Soft Rot	(a1) 0	(c1)	(c2)	

(c1)

(c1)

(c1)

(c1)

(c1)

(c2)

(c2)

(c2)

(a1)

(a1)

(a1)

(a1)

Botrytis (Grey Mold)

Bacterial Leaf Spot

Verticillium Wilt

Anthracnose

Other (Specify)

				2003 (] (
13.	INSECTS: 1 = Immune 3 = Resistant	5 = Moderately Resista	ant/Moderately Susceptible	7 = Susceptible 9 = Highly	Susceptible
	Cabbage Loopers	(a1) 0	(c1)	(c2)	
	Root Aphids	(a1) 0	(c1)	(c2)	
	Green Peach Aphid	(a1) <u>0</u>	(c1)	(c2)	
	Lettuce Aphid	(a1) 7	(c1)	(c2)	
	Pea Leafminer	(a1) <u>0</u>	(c1)	(c2)	
	Other (Specify)	(a1)	(c1)	(c2)	
14.	PHYSIOLOGICAL STRESSES: 1 = Immune 3 = Resistant	5 = Moderately Resista	int/Moderately Susceptible	7 = Susceptible 9 = Highly S	Susceptible
	Tipburn	(a1) <u>3</u>	(c1)	(c2)	
	Heat	(a1) 0	(c1)	(c2)	
	Drought	(a1) 0	(c1)	(c2)	
	Cold	(a1) 0	(c1)	(c2)	
	Salt	(a1) 0	(c1)	(c2)	
	Brown Rib (Rib Discoloration, Rib Blight)	(a1) 0	(c1)	(c2)	
	Other (Specify)	(a1)	(c1)	(c2)	
15.	POST HARVEST STRESS: 1 = Immune 3 = Resistant	5 = Moderately Resista	nt/Moderately Susceptible	7 = Susceptible 9 = Highly S	Susceptible
: .	Pink Rib	(a1) <u>0</u>	(c1)	(c2)	
	Russet Spotting	(a1) 0	(c1)	(c2)	
	Rusty Brown Discoloration	(a1) 0	(c1)	(c2)	
-	Internal Rib Necrosis (Blackheart, Grey Rib, Grey Streak)	(a1) <u>0</u>	(c1)	(c2)	
	Brown Stain	(a1) 0	(c1)	(c2)	
16.	BIOCHEMICAL OR ELECTROPHORE	TIC MARKERS:			
	·		,		
17.	COMMENTS:				

SUGGESTED CHECK VARIETIES

TYPE

1 Cutting/Leaf 2 Butterhead

2 Butte 3 Bibb

4 Cos or Romain

5 Great Lakes Group

6 Vanguard Group

7 Salinas Group

8 Eastern Group

9 Stem

10 Latin

CHECK VARIETY

Waldmann's Green Dark Green Boston

Bibb

Parris Island

Great Lakes 659-700

Vanguard Salinas Ithaca

Celtuce Little Gem

REFERENCES

Bowring, J.D.C., 1969, *The Identification of Varieties of Lettuce (Lactuca Sativa* L.). Journal of the National Institute of Agricultural Botany 11:499-520. National Institute of Agricultural Botany, Cambridge, UK.

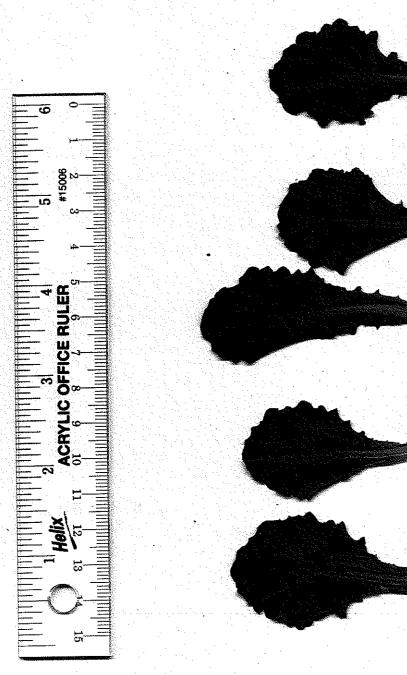
Davis, R.M., K.V. Subbarao, R.N. Raid, and E.A. Kurtz, 1997. Compendium of Lettuce Diseases. APS Press, St. Paul, MN.

Michelmore, R.W., J. M. Norwood, D.S. Ingram, I.R. Crute and P. Nicholson. 1984. The interitance of virulence in Bremia lactucae to match resistance factors 3, 4, 5, 6, 8, 9, 10, and 11 in lettuce (Lactuca sativa), Plant Pathology 32:176-177.

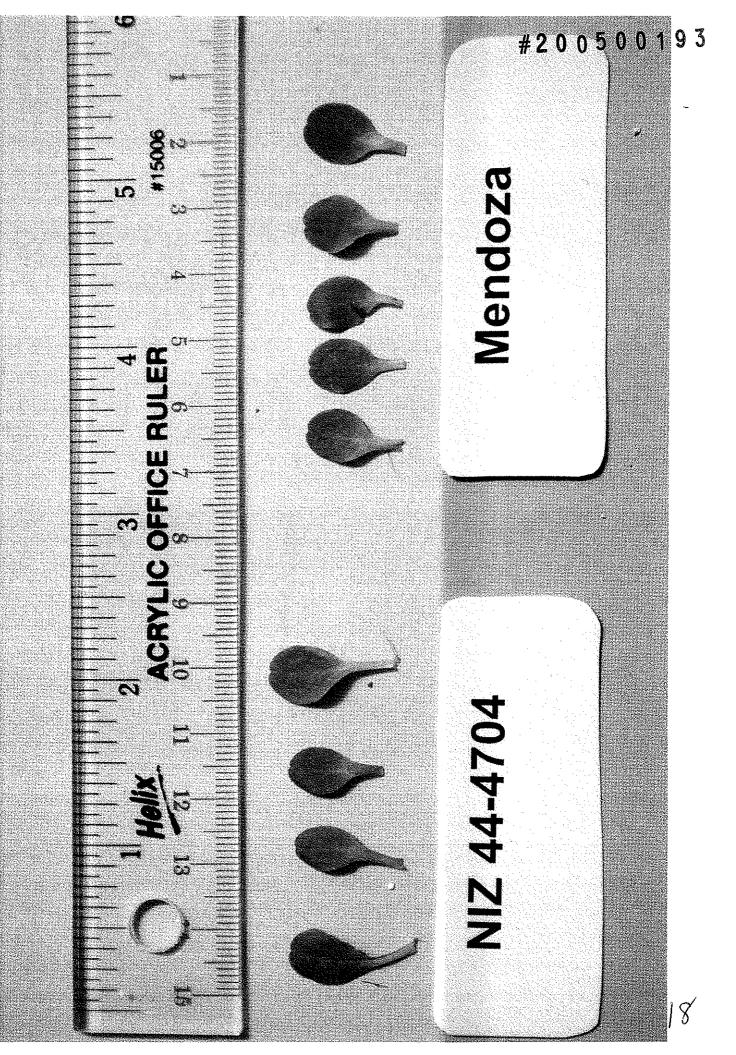
Norwood, J.M., R.W. Michelmore, I.R. Crute and D.S. Ingram. 1983. The inheritance of specific virulence of Bremia lactucae (Downy Mildew) to match R-factors 1, 2, 4, 6, and 11 in lettuce (Lactuca sativa). Plant Pathology 32:176-177.

Rodenburg, C.M., et al., 1960. Varieties of Lettuce. An International Monograph Instituut voor de Verdeling van Tuinbouwgewassen (IVT), Wageningen, NL.

Ryder, E.J., 1999, Lettuce, Endive, and Chicory, CABI Publications, Wallingford, UK.







Trial #1: Rio Farms

Location: East of King City, CA
Plant Date: Sept. 24th, 2004.
Wet Date: Sept. 25th, 2004.
Evaluation Date: Oct. 22nd, 2004
Harvest Date: Oct. 25th, 2004

Trial #2: Ottoboni Grower

Location: South of San Juan Bautista, CA
Plant Date: Sept 23, 2004
Wet Date: Sept 24th, 2004
Evaluation Date: Oct. 22nd, 2004
Color Measurement 4704: 60A
Color Measurement Mendoza: 59A
Harvest Date: Dec 21st, 2004

Trial #3: North Pacific Seeds

Location: Fresno County, CA Plant Date: April 15ht, 2004 Wet Date: April 16th, 2004

Evaluation Date: periodically, but last evaluation Aug. 19th, 2004

Harvest Date: May 18th, 2004

Mendoza			
width	L:D x 10		
cm			
6	24.16667		
5.7	25.08772		
6.4	23.90625		
6	21		
4.9	23.46939		
4.6	22.6087		
5.4	25.18519		
5	24		
5.7	25.08772		
5.4	24.81481		
10	10		
55.1	239.3264		
5.51	23.93		
6.4	25.18519		
4.6	21		
14333	1.738148		
60654	1.318388		
	width cm 6 5.7 6.4 6 4.9 4.6 5.4 5 5.7 5.4 10 55.1 6.4		

23.8532

2 trial avg

21.18644

			44-4704			Mendoza	
Rep		leaf length	leaf width	L:D x 10	leaf length	leaf width	L:D x 10
		0.1 cm	0.1 cm		0.1 cm	0.1 cm	
	1	5	2.4	20.83333	5	2.6	19.23077
	1	5.3	3.4	15.58824	4.4	2.5	17.6
	1	5	2.6	19.23077	4.5	2.7	16.66667
	1	5.2	2.8	18.57143	4.6	2.7	17.03704
	1	5	2.4	20.83333	5.2	2.4	21.66667
	2	6.5	2.8	23.21429			
	2	6	2.7	22.2222			
	2	5.4	2.3	23.47826			
4	2	6	2.8	21.42857			
	2	5.9	2.9	20.34483			
	3	6.5	2.7	24.07407			
	3	5.6	2.3	24.34783			
	3	5.8	2.5	23.2			
	3	6.2	2.8	22.14286			
	3	5.2	2.8	18.57143			
	3 3						
		•					
	3						
	3						
	3		.*				
Count		15	15	15	5	5	5
Sum		84.6	40.2	318.0815	23.7	12.9	92.20114
Average		5.64	2.68	21.21	4.74	2.58	18.44
Maximum		6.5	3.4	24.34783	5.2	2.7	21.66667
Minimum		. V. 19 5	2.3	15.58824	4.4	2.4	16.66667
Variance		0.281143	0.080286	5.970815	0.118	0.017	4.213827
Std Dev		0.530229	0.283347	2.443525	0.343511	0.130384	2.052761
5		*	•				

TRIAI #3 RAD 8/21/08

15-Apr 44-4704			Mendoza					
	date of stalk				date of stalk			
Rep	emergence	# days	head height	head width	emergence	# days	head height	head width
			cm	cm		-	cm	cm
1	3-Jun	49	79.065	38.905	30-May	45	70.28	37.65
1	1-Jun	47	79.6925	35.7675	28-May	43	74.6725	35.14
1	3-Jun	49	69.6525	29.4925	30-May	45	64.005	39.5325
1	O Udii	49	70.9075	31.375	29-May	44	60.8675	35.7675
2		49	76.555	37.0225	30-May	45	72.79	37.0225
2		47	70.9075	34.5125	29-May	44	70.28	33.2575
2	4-Jun	50	72.79	33.885	27-May	42	67.77	32.63
2		50	72.1625	35.7675	27-May	42	69.6525	33.2575
3		47	68.3975	35.7675	28-May	43	68.3975	32.63
3		48	73.4175	38.905	2-Jun	48	67.77	32.0025
3		49	72.1625	30.12	29-May	44	65.26	30.12
3	4-Jun	50	82.2025	35.14	29-May	44	69.025	33.885
. 4	1-Jun	47	78.4375	38.905	30-May	45	74.045	39.5325
4		47	74.045	37.65	2-Jun	48	67.1425	37.0225
4	3-Jun	49	77.81	39.5325	1-Jun	47	69.6525	34.5125
4	3-Jun	49	79.6925	37.65				
Carret		40	40					
Count		16	16	16		15	15	15
Sum		776	1197.8975	570.3975		669	1031.61	523.9625
Average		48.50	74.87	35.65	•	44.60	68.77	34.93
Maximum		50	82.2025	39.5325		48	74.6725	39.5325
Minimum		47	68.3975	29.4925		42	60.8675	30.12
Variance		1.3333	17.6255141	9.8816412		3.542857	13.3764623	7.7438729
Std Dev	n de la companya di dia dia dia dia dia dia dia dia dia	1.1547	4.19827514	3.1435078		1.882248	3.65738463	2.7827815

REPRODUCE LOCALLY. Include form number and edition date on al	Il reproductions.	ORM APPROVED - OMB No. 0581-0055			
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	ermine if a plant variety protection 421). The information is held ed (7 U.S.C. 2426).				
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION 3. VARIETY NAME				
NIICVERCONI ZWA ANI	OR EXPERIMENTAL NUMBER				
NICKERSON-ZWAAN	NIZ 44-4704	44-4704			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)			
PO BOX 28	31.162.690.945	31.162.680.970			
4920 AA MADE THE NETHERLANDS	7. PVPO NUMBER 2 0 0 5 0 0 1 9 3				
8. Does the applicant own all rights to the variety? Mark an "X" in the	le appropriate block. If no, please expla	in. YES NO			
9. Is the applicant (individual or company) a U.S. national or a U.S. t	pased company? If no, give name of co	ountry. YES NO			
THE NETHERLANDS					
10. Is the applicant the original owner?	NO If no, please answer one	of the following:			
a. If the original rights to variety were owned by individual(s), is YES b. If the original rights to variety were owned by a company(ies) YES	NO If no, give name of count THE NETHERLANDS	sed company?			
11. Additional explanation on ownership (Trace ownership from original)	nal breeder to current owner. Use the re	everse for extra space if needed):			
PLEASE NOTE:					
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:				
If the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of	erson must be a U.S. national, national of the U.S. for the same genus and specie	of a UPOV member country, or es.			
 If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species. 					
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must m	eet one of the above criteria.			
The original breeder/owner may be the individual or company who dis Act for definitions.	•				
According to the Paperwork Reduction Act of 1995, an agency may not conduct or snonsor					

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